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SUBSTITUTE FORM PTO-1449 (MODIFIED)		DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 06816/005002		SERIAL NO. 09/881309	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT: Surampudi, et al.		#5 11-16-01	
				FILING DATE 06/07/97		GROUP UNKNOWN	
(37 CFR 1.98(b))							
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER		ISSUE DATE	PATENTEE	CLASS	SUBCLASS
OK	AA	3	1	4	3	4	4
		0	08/04/64		H. HUNGER ET AL.		
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER		PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS
							TRANSLATION
							YES
							NO
OK	AL	59-209277		04/04/85	Japan		X
OK	AM	60-165062		01/07/86	Japan		X
OK	AN	63-076264		08/22/88	Japan		X
OK	AO	02-148657		08/24/90	Japan		X
OTHER DOCUMENTS (including Author, Title, Date, Place of Publication)							
OK	AQ	Narayanan et al. "Implications of Fuel Crossover in Direct Methanol Fuel Cells", Extended Abstracts Fall Meeting October 10-15, vol. 93/2, pps 126/127, New Orleans 1993.					
OK	AR	Kosek et al. "A Direct Methanol Oxidation Fuel Cell", Proceeding of the 28th Intersociety Energy Conversion Engineering Conference, vol. 1, pps 1.1209 - 1.1214, Atlanta 1993.					
OK	AS	Hamnet et al. "Electrocatalysis and the Direct Methanol Fuel Cell", Chemistry and Industry Chemistry and Industry Review, No. 13, pps 480-483, 7/6/92.					
OK	AT	Zawodzinski et al. "Methanol Cross-Over in DMFC'S: Development of Strategies for Minimization", Extended Abstracts Spring Meeting 1994 St. Louis, MO., vol. 94/2, pg. 960, 1992					
EXAMINER		DATE CONSIDERED		5/23/03			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Substitute Disclosure Form (PTO-1449)

ATTACH
to # 7

SUBSTITUTE FORM PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 06816/005002
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		SERIAL NO. 06816/005002 <u>09/881309</u>
(37 CFR 1.98(b))		APPLICANT: Surampudi et al.
FILING DATE June 7, 1995		GROUP <u>1745</u>

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	3 1 4 3 4 4 0	08/04/64	Hunger et al.			
OK AB	3 0 1 3 0 9 8	12/12/61	Hunger et al.			
OK AC	4 4 9 3 8 7 8	01/15/85	Horiba et al.			
OK AD	5 5 9 9 6 3 8	02/04/97	Surampudi et al.			
AE						

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AF	JP 59209277	11/27/84	Japan				
AG	JP 60165062	08/28/85	Japan				
AH	JP 63076264	04/06/88	Japan				
AI	JP 02148637	06/07/90	Japan				
OK AJ	JP 06188008	07/08/94	Japan				
OK AK	EP 0241432	10/14/87	Europe				
OK AL	DE 4243600	07/01/93	Germany				
OK AM	JP 6251779	09/09/94	Japan				
OK AN	JP 54076443	06/09/79	Japan				
OK AO	FR 1436154	07/01/66	France				

OTHER DOCUMENTS (including Author, Title, Date, Place of Publication)

AP	Narayanan et al., Implications of fuel crossover in direct methanol fuel cells, 10/93, Extended Abstracts Fall Meeting, vol. 93/2, pg. 126-127
AQ	Kosek et al., A direct methanol oxidation fuel cell, 08/93, Proceedings of the 28th Intersociety Energy Conversion Engineering Conference, vol. 1
AR	Hamnett et al., Electrocatalysis and the direct methanol fuel cell, 07/92, Chemistry and Industry Chemistry and Industry Review, no. 13, pg. 480-483
OK AS	Narayanan et al., Studies on the electro-oxidation of methanol and formaldehyde at carbon-supported platinum and platinum alloy electrodes, 1992, Extended Abstracts Fall Meeting, vol. 92, no.2, pg. 78-79 (Narayanan)
AT	Zawodzinski et al., Methanol cross-over in DMFC's. Development of strategies for minimization, 10/92, Extended Abstracts Spring Meeting, vol. 94/2, pg. 960
OK AU	Poltarzewski et al., Nafion distribution in gas diffusion electrodes for solid-polymer -electrolyte-fuel-cell applications, 03/92, Journal of the Electrochemical Society, vol.139, no.9, pg.761-765
OK AV	Surampudi et al., Advances in direct oxidation methanol fuel cells, 01/94, Journal of Power Sources, vol.47, no.3, pg.377-385

OK	AX	Watanabe, Improvement of performance and durability of anode for direct methanol fuel cells, 1992, Proceedings of the Workshop on Direct Methanol-Air Fuel Cells, vol.92-14
EXAMINER	DATE CONSIDERED	5/23/03
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

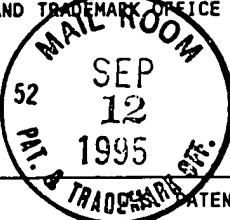
Substitute Disclosure Form (PTO-1449)

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SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
06816/005002SERIAL NO.
06816/005002INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)APPLICANT
SURAMPUDI et al.FILING DATE
June 7, 1995GROUP
Unassigned

(37 CFR 1.98(b))

09/881309
ATTACH TO # 27
1745

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
OK	AA	3 0 1 3 9 0 8	12/1961	Luck et al.			
OK	AB	3 1 1 3 0 4 9	01/1961	Worsham			
OK	AC	3 3 6 8 9 2 2	02/1968	Salzer	429	33	
OK	AD	4 2 6 2 0 6 3	04/1981	Kudo et al.	429	41	
OK	AE	4 3 9 0 6 0 3	06/1983	Kawana et al.	429	30	
OK	AF	4 4 0 7 9 0 5	10/1983	Takeuchi et al.	429	42	
OK	AG	4 4 2 0 5 4 4	12/1983	Lawson et al.	429	42X	
OK	AH	4 4 7 8 9 1 7	10/1984	Fujita et al.	429	33	
OK	AI	4 5 3 7 8 4 0	08/1985	Tsukui et al.	429	33	
OK	AJ	4 5 6 2 1 2 3	12/1985	Shimizu et al.	429	27	
OK	AK	4 6 1 2 2 6 1	09/1986	Tsukui et al.	429	13	
OK	AL	4 6 2 9 6 6 4	12/1986	Tsukui et al.	429	23	
OK	AM	4 8 2 8 9 4 1	05/1989	Sterzel	429	33	
OK	AN	4 8 7 6 1 1 5	10/1989	Raistrick	427	115	
OK	AO	5 1 8 6 8 7 7	02/1993	Watanabe	429	42X	
OK	AP	5 3 3 0 8 6 0	07/1994	Grot et al.	429	33X	

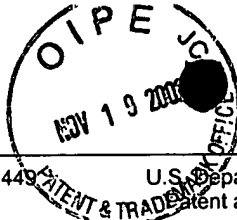
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

OK	AQ	"Studies of the Electro-oxidation of Methanol and Formaldehyde at Carbon-supported Platinum and Platinum Alloy Electrodes" The Electrochemical Society, Inc., R. Knieler, G. Stolp, G.S. Prakashand and G. Olah, October 11 - 16, 1992
OK	AR	"Fuel Cell Update" Popular Science, P.J. Skerrett, June 1993
OK	AS	"Applications of the Gas Diffusion Electrode to a Backward Feed and Exhaust (BFE) Type Methanol Anode" Masahiro Watanabe, Makoto Uchida and Satoshi Motoo, J. Electroanal. Chem., 199 (1986) 311-322 (Month Unknown)
OK	AT	"The Use of Thin Films of Sulphonated Fluoro-Polymers for Improvements in the Activity and Durability of Pt Electrocatalysts for Methanol Electrooxidation" Masahiro Watanabe, Takeshi Takahashi and Hideaki Kita J. Electroanal. Chem., 284 (1990) 511-515 (Month Unknown)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



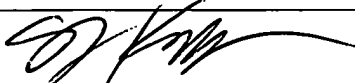
Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 06816-005004	Application No. 09/881,309
		Applicant Surampudi et al.	
	Filing Date June 13, 2001	Group Art Unit 1745	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
OK	AL	58-004274	Jan 11, 1983	Japan	—	—	ABS	
OK	AM	62-296372	Dec 23, 1987	Japan	—	—	ABS	
GJK	AN	58-034573	Mar 1, 1983	Japan	—	—	ABS	
OK	AO	58-186170	Oct 31, 1983	Japan	—	—	ABS	
GJK	AP	62-208553	Sep 12, 1987	Japan	—	—	ABS	
	AQ							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AR	
	AS	
	AT	
	AU	

Examiner Signature 	Date Considered 5/23/02
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